

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Original) A method of completing a subterranean well comprising the steps of:
 - a. assembling a production tube string having at least one side pocket mandrel;
 - b. positioning said tube string within a well bore;
 - c. displacing cement through said tube string and side pocket mandrel into the well bore annulus around said tube string; and,
 - d. substantially removing residual cement from within said side pocket mandrel by well working fluid.
2. (Original) A method of completing a subterranean well as described by claim 1 wherein said residual cement is substantially removed by well working fluid.
3. (Original) A method of completing a subterranean well as described by claim 2 wherein said well working fluid displaces a cement wiper plug through said mandrel to remove a first portion of cement within said mandrel.
4. (Original) A method of completing a subterranean well as described by claim 3 wherein well working fluid displacing said wiper plug turbulently flushes additional cement from within said mandrel.
5. (Original) A side pocket mandrel comprising:
 - a. an axially elongated tube terminated at distal ends by asymmetric assembly joints;
 - b. an asymmetric flow channel along an inner volume of said tube

between said assembly joints;

- c. a cylinder bore enclosure within said inner volume, lateral of said flow channel and between said assembly joints, said cylinder bore enclosure having a length that is less than half the length of said tube inner volume;
 - d. a normally unoccupied channel of workspace within said inner volume extending from said cylinder bore toward a proximate assembly joint; and,
 - e. an unclaimed portion of said inner volume beyond said flow channel, said cylinder bore enclosure and said workspace channel being substantially occupied by filler material.
6. (Original) A side pocket mandrel as described by claim 5 wherein said filler material comprises surface discontinuities formed to induce fluid flow turbulence.
7. (Original) A side pocket mandrel as described by claim 6 wherein said surface discontinuities comprise surface upsets.
8. (Original) A side pocket mandrel as described by claim 6 wherein said surface discontinuities comprise transverse jet channels.
9. (Original) A side pocket mandrel as described by claim 5 wherein said filler material comprises a plurality of independent increments.
10. (Original) A side pocket mandrel as described by claim 9 wherein each of said independent increments of filler material is separated from adjacent

increments.

11. (Original) A side pocket mandrel as described by claim 9 wherein each of said independent increments of filler material is welded to a tube wall enclosing said inner volume.
12. (Original) A side pocket mandrel as described by claim 9 wherein said filler material is aligned in substantially parallel rows on opposite sides of said workspace channel.
13. (Original) A well tubing wiper plug comprising:
 - a. a leading bore wiper unit secured to an assembly shaft;
 - b. a trailing bore wiper unit secured to said assembly shaft at a position separated from said trailing unit by a distance substantially corresponding to the length of a tubing joint; and,
 - c. a bore centralizing unit secured to said assembly shaft between said leading and trailing bore wiper units.
14. (Original) A well tubing wiper plug as described by claim 13 wherein said wiper units comprise a serial plurality of pliant material discs.